

**AMENDMENTS TO THE CLAIMS**

This Listing of Claims will replace all prior versions and listings of claims in this application.

Listing of Claims:

1. (Previously Presented) A short-range wireless access point comprising a server associated with transceivers, the access point being configured to:

establish communication with a network server of a service provider;

discover a mobile device within a coverage area of the access point and identify a code associated with the mobile device;

establish a short-range communication link with the mobile device within the coverage area of the access point;

request and obtain a wide area identification of the mobile device; and

transmit instructions to the mobile device, the instructions including a hashed code comprising the code associated with the mobile device and the wide area identification, wherein the instructions are to direct the mobile device to forward the hashed code to the access point in a subsequent request for service from the network server, after the mobile device leaves the coverage area, to enable the access point to associate a current session between the network server and the access point with the subsequent request.

2. (Previously Presented) The short-range wireless access point of claim 1, further configured to: suggest to the mobile device that the mobile device initiate a wide area service session for services not available from the service provider, if the mobile device is registered with the access point.

3. (Canceled)

4. (Previously Presented) The short-range wireless access point of claim 1, further configured to couple the access point to the service provider via an information network.

5.-6. (Canceled)

7. (Previously Presented) The short-range wireless access point of claim 1, further comprising:

a service provider incorporated within the access point, wherein  
the access point is configured to establish the session with the mobile device and provide services via the short-range communication link when the mobile device is within the coverage area or through a cellular network when the mobile device is outside the coverage area.

8. (Previously Presented) The short-range wireless access point of claim 1, wherein the code is a hardware address associated with the mobile device and the wide area identification is an identifier of the mobile device in wide area communications.

9. (Previously Presented) The short-range wireless access point of claim 1, wherein the short-range communication link implements Bluetooth protocols.

10. (Currently Amended) The short-range wireless access point of claim 1, wherein the access point is configured to implement ~~implements~~ cellular protocols on a wireless communication link with the network server.

11. (Previously Presented) The short-range wireless access point of claim 4, wherein the information network is the Internet.

12. (Previously Presented) A method in a short-range wireless access point, comprising:  
discovering a mobile device and identifying a code associated with the mobile device;  
establishing a short-range communication link with the mobile device within a coverage area of the access point;  
requesting and obtaining a wide area identification of the mobile device; and  
transmitting instructions to the mobile device, the instructions including a hashed code

comprising the code associated with the mobile device and the wide area identification, wherein the instructions are to direct the mobile device to forward the hashed code to the access point in a subsequent request for service from a network server, after the mobile device leaves the coverage area, to enable the access point to associate a current session between the network server and the access point with the subsequent request.

13. (Previously Presented) The method of claim 12, further comprising:

suggesting to the mobile device that the mobile device initiate a wide area service session for services not available from the service provider, if the mobile device is registered with the access point.

14. (Previously Presented) The method of claim 12, further comprising:

coupling the access point to the service provider via an information network.

15.-16. (Canceled)

17. (Previously Presented) The method of claim 12, further comprising:

incorporating a service provider within the access point; and

enabling the access point to contact the mobile device and provide services via the short-range communication link when the mobile device is within the coverage area or through a cellular network if the mobile device is outside the coverage area.

18. (Cancelled)

19. (Previously Presented) The method of claim 12, further comprising implementing Bluetooth protocols on the short-range communication link.

20. (Previously Presented) The method of claim 12, further comprising implementing cellular protocols in a wide area connection link established with the service provider.

21. (Previously Presented) The method of claim 14, wherein the information network is the Internet.

22.- 56. (Cancelled)

57. (Currently Amended) A computer-readable medium having stored thereon[[,]] computer executable instructions that, ~~if-executed~~ upon execution by a computing device, cause the computing device to perform operations ~~a method~~, comprising:

- discovering a mobile device and identifying a code associated with the mobile device;
- establishing a short-range communication link with the mobile wireless device within a coverage area of an access point;
- requesting and obtaining a wide area identification of the mobile device; and
- transmitting instructions to the mobile device, the instructions including a hashed code comprising the code associated with the mobile device and the wide area identification, wherein the instructions are to direct the mobile device to forward the hashed code to the access point in a subsequent request for service from a network server, after the mobile device leaves the coverage area, to enable the access point to associate a current session between the network server and the access point with the subsequent request.

58. (Previously Presented) The short-range wireless access point of claim 1, further comprising a backend server configured to track and calculate services used by the mobile device when the mobile device is within a billing zone.

59. (Previously Presented) The short-range wireless access point of claim 58, wherein the backend server is configured to send billing data to the mobile device.

60. (Previously Presented) The method of claim 12, further comprising:

- sending a message to a backend server describing the mobile device and duration of the mobile device in a billing zone for calculation of a billing time of the mobile device.

61. (Previously Presented) The method of claim 60, further comprising:  
sending a message including the billing time to the mobile device.
62. (Previously Presented) The short-range wireless access point of claim 1, wherein the access point is configured to incorporate a service provider and to communicate with the mobile device via electronic text messages in supplying services.
63. (Previously Presented) The short-range wireless access point of claim 1, wherein the access point is configured to incorporate a service provider and to maintain consumer relations with the mobile device after the mobile device departs from the coverage area.
64. (Previously Presented) The short-range wireless access point of claim 1, wherein the access point is configured to transmit the instructions to the mobile device in an electronic text message.
65. (Previously Presented) The short-range wireless access point of claim 1, wherein the instructions include instructions on how the mobile device is to proceed in obtaining service from the service provider.
66. (Previously Presented) The short-range wireless access point of claim 1, wherein the access point is configured to:  
determine that the short-range communication link is closed;  
establish a wide area communication with the mobile device;  
receive from the mobile device the subsequent request including the hash code through the wide area communication; and  
use the received hash code to associate the wide area communication with the current session.
67. (Previously Presented) The method of claim 12, further comprising  
determining that the short-range communication link is closed;

establishing a wide area communication with the mobile device;  
receiving from the mobile device the subsequent request including the hash code through the wide area communication; and  
using the received hash code to associate the wide area communication with the current session.

68. (Previously Presented) A mobile device configured to:

receive an inquiry packet from an access point when the mobile device is within a coverage area,

transmit a code associated with the mobile device to the access point;

establish a short-range communication link with the access point;

receive a request for a wide area identification of the mobile device from the access point and to transmit the wide area identification to the access point;

receive instructions from the access point, the instructions including a hashed code comprising the code associated with the mobile device and the wide area identification, wherein the instructions are to direct the mobile device to forward the hashed code to the access point in a subsequent request for service from a network server, after the mobile device leaves the coverage area, to enable the access point to associate a current session between the network server and the access point with the subsequent request.

69. (Previously Presented) An apparatus, comprising:

means for receiving an inquiry packet from an access point when a mobile device is within a coverage area,

means for transmitting a code associated with the mobile device to the access point;

means for establishing a short-range communication link with the access point;

means for receiving a request for a wide area identification of the mobile device from the access point and transmitting the wide area identification to the access point;

means for receiving instructions from the access point, the instructions including a hashed code comprising the code associated with the mobile device and the wide area identification, wherein the instructions are to direct the mobile device to forward the hashed code to the access

point in a subsequent request for service from a network server, after the mobile device leaves the coverage area, to enable the access point to associate a current session between the network server and the access point with the subsequent request.

70. (Previously Presented) An apparatus, comprising:

means for discovering a mobile device and identifying a code associated with the mobile device;

means for establishing a short-range communication link with the mobile wireless device within a coverage area of an access point;

means for requesting and obtaining a wide area identification of the mobile device; and

means for transmitting instructions to the mobile device, the instructions including a hashed code comprising the code associated with the mobile device and the wide area identification, wherein the instructions are to direct the mobile device to forward the hashed code to the access point in a subsequent request for service from a network server, after the mobile device leaves the coverage area, to enable the access point to associate a current session between the network server and the access point with the subsequent request.

71. (Previously Presented) A method, comprising:

receiving an inquiry packet from an access point when a mobile device is within a coverage area,

transmitting a code associated with the mobile device to the access point;

establishing a short-range communication link with the access point;

receiving a request for a wide area identification of the mobile device from the access point and transmitting the wide area identification to the access point; and

receiving instructions from the access point, the instructions including a hashed code comprising the code associated with the mobile device and the wide area identification, wherein the instructions are to direct the mobile device to forward the hashed code to the access point in a subsequent request for service from a network server, after the mobile device leaves the coverage

area, to enable the access point to associate a current session between the network server and the access point with the subsequent request.

72 . (Currently Amended) A computer-readable medium having stored thereon[[,]] computer executable instructions that, ~~if executed~~ upon execution by a computing device, cause the computing device to perform operations ~~a method~~, comprising:

- receiving an inquiry packet from an access point when a mobile device is within a coverage area,

- transmitting a code associated with the mobile device to the access point;

- establishing a short-range communication link with the access point;

- receiving a request for a wide area identification of the mobile device from the access point and transmitting the wide area identification to the access point;

- receiving instructions from the access point, the instructions including a hashed code comprising the code associated with the mobile device and the wide area identification, wherein the instructions are to direct the mobile device to forward the hashed code to the access point in a subsequent request for service from a network server, after the mobile device leaves the coverage area, to enable the access point to associate a current session between the network server and the access point with the subsequent request.